

Solar Pack

EN Installation instructions



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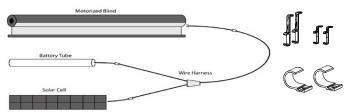
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1. INTRODUCTION

The Solar Pack is a group of components that work in unison as a long life energy source for Somfy 12 Volt WireFree™ motors. This Product is designed for indoor use only.

Contents of the Pack include:

- (1) Solar Panel in Bezel
- (1) Empty Battery Tube (for 10AA NiMH batteries #9018621)
- (1) Wire Harness
- (1) Glass-Mount Adhesive
- (1) Alcohol wipe
- (1) Instructions
- (1) Solar Panel Mounting Brackets (2" & 4")
- (1) Wall Mount Clips For Battery Tube



Note: This product is designed to meet the energy requirements of Somfy 12 Volt WireFree™ Motor applications. DO NOT exceed the following:

- A. Maximum Torque and blind dimensions. (contact your Somfy retailer).
- B. Solar Pack Performance Tables (see Section 8).

2. SAFETY

2.1 Safety and Responsibility

Before installing and using this product, please read the installation guide carefully.

It is recommended that Solar Pack be installed by a professional motor installer for whom these instructions are intended.

Care must be taken for both new and existing installations due to the physical mounting location of the motorized window covering - likely at the top of an interior window.

Consequently, pay attention to your personal safety in regards to proper use of ladders.

Care must also be taken to not drop hand tools or Solar Pack components from an extended height.

Any usage outside of applications defined by Somfy constitutes noncompliance and is therefore not covered by the warranty. In this event, as for all usage not consistent with the instructions given herein, Somfy accepts no responsibility for harm or damage.

Never begin installing without first checking the compatibility of this product with the associated equipment and accessories.

	Power So	urces for 12 Vo	olt WireFree [™]	[™] Motors
r,	WireFree™ Motor	12 Volt	Battery Tube	Solar Pack
	Roll Up 28 RTS	9	√	V
:	Cord Lift 32 RTS	3	1	√
n e,	Tilt RTS		V	√
-,	Tilt&Lift 25 RTS		√ √	√

2.2 Specific Safety Advice

- 1) Never pierce the solar panel or its bezel frame.
- 2) Never put anything onto the solar panel (risk of scratching or breakage), especially during installation.
- 3) Once installed, never subject the wire harness or other components to strain, pinching, or cutting caused by moving objects.
- 4) Dispose of electronic components and batteries in accordance with local laws. Do not incinerate.
- 5) Never immerse this product in liquid (s).
- 6) Avoid Impacts
- 7) Do Not Recharge the battery with any charger other than a Somfy Solar Pack Charger.



The solar panel is a fragile part. Do not drop it. If Dropped, do not install as damage may not be visibly detectable and reduced performance may occur.

Refer to the Instruction Manual or Contact your Somfy Representative.

3. INSTALLATION

3.1 Determine Location of Solar Panel

The solar panel must always be installed indoors, directly against the window glass so as to allow as much natural light as possible to reach the panel.



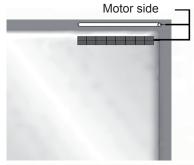
Caution! Never install the solar panel on any window glass allowing less than 65% light transmission (including Low E glass and/or window tinting), or obstructed by a window pane or bug screen.

Always leave the photovoltaic cells unobstructed, do not put anything in front of them.

The three components which make up the Solar Pack must be installed on the same side as the WireFree $^{\text{TM}}$ motor.

Somfy recommends that all components be fitted systematically in order that all components may be connected to the wire harness easily, and that the wire harness does not interfere with the free movement of the interior window covering.

Please Refer to the Solar Pack Performance Tables Section 8.0 to confirm proper usage per blind and window orientation.



Battery Tube: Located near the top of the window frame and near the motor side. May be hidden from view.



Panel: Located near the top of the window frame and near the motor side. When fully open, shade or fascia may help conceal panel from inside view.

3.2 Mounting the Solar Panel.



Caution! It is imperative that window hardware or framing does not collide with the solar panel!

Careful! Do not damage the wire harness cables during installation.

Determined the position of the solar panel (against window, within reach of wire harness) prior to application of 2-sided tape to insure proper adhesion the first time.



Installed: When fully open, shade or fascia may help conceal Solar Pack from inside view. Wire Harness is tucked away.

3.2.1 Glass Mounting



Caution! To insure a secure adhesive hold over a long period, prepare the inside window glass prior to mounting the solar panel.

Important! The adhesive tape should never be touched directly with fingers (or other contaminates) prior to adhesion.

- 1) Clean solar panel bezel corners and window area with alcohol prep pad. Let dry for two minutes.
- 2) On a table, with the solar panel facing up, apply the 2-sided adhesive to four corners of the solar panel bezel.

Note: The tape is precut for your convenience in between the top (facer) and bottom (backer) liners. With your fingers, lift off each precut adhesive piece so that it remains attached to the "facer" material and the opposite side of the tape should then be released from the back liner. See Photo in Figure 1 and Figure 2.

3) Remove the "facers" of the applied adhesive. Position the bezel with solar panel facing to outdoors, then press entire panel with firm, even pressure into the glass for 10-15 seconds. The panel is now supported by the adhesive to glass bond but will require 24 hours of cure time to allow full strength characteristics. Do not disturb during this period.



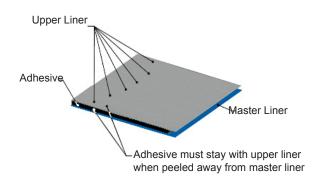


Figure 2. Apply to all 4 corners



3.3 Battery Tube

The battery tube is shipped empty. Required batteries (10 AA NiMH #9018621) are sold separately.

3.3.1 Battery Preparation

Have a service professional fully charge the battery using the compatible Somfy Solar Pack Rapid Charger (Ref #9018620 - Solar Pack Charger).

Open battery tube and install 10 AA NiMH batteries inside as shown on the battery tube label.

Solar Pack Charger (Ref #9018620) -sold separately.





Battery must be fully charged prior to installation. Do not exceed 5 days from time of 100% charge to installation or performance may not be met.

3.4 Battery Tube Install Location

Once the batteries installed in the tube, the battery tube assembly can be secured and hidden from view either behind, inside or next to the window covering product hardware. The battery tube is compatible with Somfy Mounting Clips designed for Shangri-La (REF# 9013266) & Silhouette (REF#9013264) window covering products.

For outside of headrail mounting, battery tube wall mounting clips (#9013263) are included in the pack, for either vertical or horizontal positioning.

For blinds with box head rails, room may exist to place the battery inside the rail without interference.



Caution! If installing the battery vertically, always position it with the cable output upwards to reduce unrestrained wire from catching the shade.



Vertical Battery Tube connector orientation

4. CONNECTIONS

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Caution! The wiring harness connecting the Solar Pack components must be protected from the movement of the motorized window covering.

Caution! Do not change the configuration of this system to include different connectors.

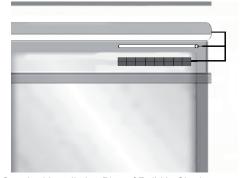


- 1) Connect the wire harness to the motor.
- 2) Connect the solar panel to the wire harness
- 3) Connect the battery tube to the wire harness

5. COMMISSIONING

5.1 Activation of Motor

If the Solar Pack is being installed as an upgrade to an existing Somfy WireFree™ motorized shade installation, there is no need to reprogram the motor. If the Solar Pack is being installed with a new Somfy WireFree™ motor, follow the motor installation guide.



Standard Installation Plan of Roll-Up Shade.

6. PRODUCT IN USE

6.1 Normal Operation

After commissioning, the battery is trickle-charged by electrical energy generated by the solar panel. The energy is stored in the high capacity NiMH battery (acting like a reservoir) and the system provides uninterrupted service through many climatic seasons. It is normal for the battery to gain more energy in summer as compared to winter – the Solar Panel converts the intensity of light to energy upon availability.

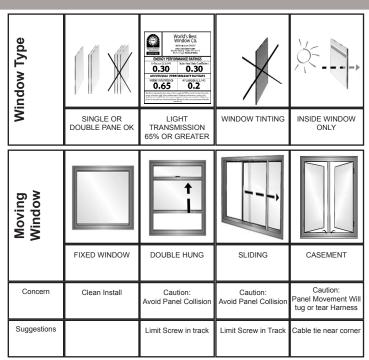
6.2 Excessive Energy Use

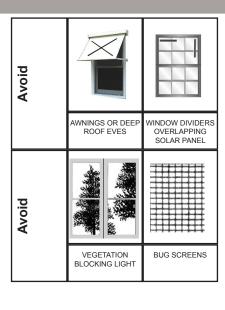
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Caution! If daily motor activations exceed recommended cycles per day as stated in the Solar Pack Performance Chart, the solar panel will not be able to "replenish" the battery as designed.

If the motorized shade does not operate due to an excessively diminished battery, the battery may require a full recharge. This may be done with a Somfy Solar Pack Charger (#9018620). If the battery no longer provides adequate power to operate your motor, new NiMH batteries should be installed in the battery tube. There is no need to replace any other Solar Pack components.

7 WINDOW APPLICATION TABLES & GUIDELINES





8 SOLAR PACK PERFORMANCE TABLES & SOLAR ZONES (P22)

The Solar Pack Performance Table is a reference chart only and is based on Minimum Peak Sun Hours provided by data accumulated by NASA's Atmospheric Science Data Center.

Steps to determine Solar Zone:

- 1a. Choose city or region on map based on map color.
- Choose closest city from tables provided.
- 2. Identify corresponding solar zone in the chart.
- 3. Determine window orientation (facing out north, south, east or west).
- 4. Determine shade drop.
- 5. Apply data to chart. Cross reference for answer.

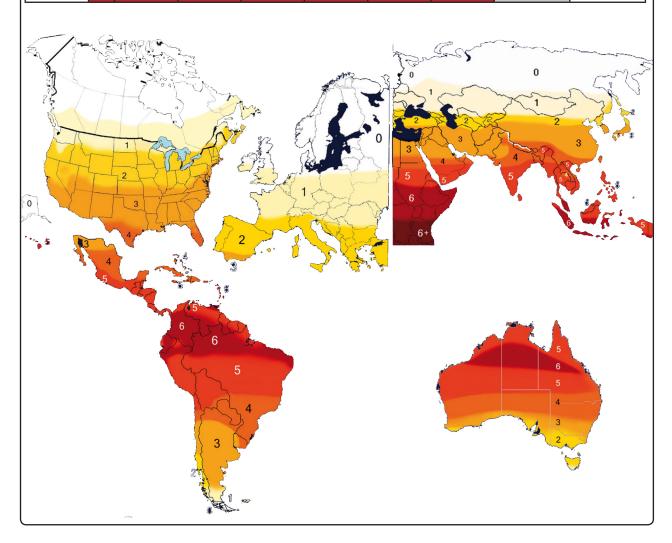
NOTE: 1 cycle = 1 Up / 1 Down movement. Do not exceed listed specification.

		SOLAR PACK TROUBLESHOOTING
	The motor does not work	Verify wires have secure connection, and that wires are not cut. Verify battery has been charged to 100%. See Troubleshooting Section of Specific Motor (Roll-Up,Cord-Lift, or Tilt User Manual).
During Installation	Solar Panel does not adhere to glass after initial application.	1. Remove panel and adhesive. Clean glass with glass prep pad. Dry. Apply new adhesive as directed.
Du	Sliding window collides with solar panel after mounting.	Install a window bumper to prevent collision. Install optional solar panel mounting bracket.
	Solar Pack loses charge BEFORE 3-5 years of use.	Contact Service provider to recharge battery to 100%. Review Solar Pack Performance Chart & Section 7.0 Window Application Tables & Guidelines.
After Installation	Solar Pack loses charge AFTER 3-5 years.	Purchase new 10AA NiMH batteries and install them in the battery tube.

Solar Pack Performance Tables & Solar Zones Tableau de performance du Solar Pack & Zones de Soleil Solar Pack-Leistungstabellen und Strahlungszonen Tablas de rendimiento y zonas solares del Solar Pack Πίνακες επιδόσεων & ηλιακές ζώνες Solar Pack

EN Cycles per day for this orientation and shade size FR Nombre de cycles par jour selon l'orientation et la taille du store DE Zyklen pro Tag für diese Ausrichtung und Schatten Größe- ES Ciclos por día para esta orientación y el tamaño de la sombra EL Κύκλοι λειτουργίας ανα ημέρα με αυτόν τον προσανατολισμό και μέγεθος σκιαδίου

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				South - Sud - Süden - Sur - Νότος	West - Ouest - Westen - Oeste - Δύση	East - Est - Osten - Este - Ανατολή	North - Nord - Norden - Norte - Ο Βορράς		
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Solar Zones	1	0' → 5'	0m → 1,5m	1	1	1	2	Tn b	'n he Her
Zones de	'	5' → 8'	1,5m → 2,4m	0	1	0	1	emis	emis nisfe
Soleil	2	0' → 5'	0m → 1,5m	1	2	2	3	sphe Prio (pher
Strahlungszo-	2	5' → 8'	1,5m → 2,4m	0	1	1	1	re / I	orte Forte
nen	3	0' → 5'	0m → 1,5m	2	2	2	3	N dém	émis e / B
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	0	5' → 8'	1,5m → 2,4m	1	2	2	3		· '



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Birmingham,AL	3		Arcata,CA	2	Г
Centreville,AL	3		Avalon, Catalina Isl.) Ca	3	
Dothan,AL	3		Bakersfield,CA	3	
Fort Rucker,AL	3		Beaumont,CA	3	L
Gadsden,AL	3		Big Bear ,CA	3	
Huntsville,AL	3		Bishop,CA	3	L
Maxwell AFB,AL	3	Н	Blue Canyon,CA	2	
Mobile,AL	3		Blythe,CA	3	H
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Cordova,AK	0		DisneyLand, CA	3	
Deadhorse,AK	0	П	Edwards AFB,CA	3	
Dutch Harbor, AK	0		El Cajon, CA	3	
Fairbanks,AK	0	Ц	El Centro,CA	3	
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Flagstaff,AZ	3		Montague,CA	2	
Lake Havasu, AZ	3		Monterey,CA	3	
Gila Bend,AZ	3		Mount Shasta,CA	2	
Goodyear,AZ	3		Mount Wilson,CA	3	
Grand Canyon,AZ	3		Napa,CA	2	
Kingman,AZ	3		Coronado, CA	3	
Page,AZ	3		Oakland, CA	3	
Payson,AZ	3		Ontario Intl,CA	3	
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Alamosa,CO	3	F	Patrick AFB,FL	4	
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Colo Sprgs,CO	3	Ē	Sanford,FL	3	
Cortez,CO	3		Sarasota,FL	4	
Craig-Moffat,CO	2		Tallahassee,FL	3	
Denver,CO	2		Tampa Intl,FL	4	
Durango,CO	3		Titusville,FL	4	
Eagle,CO	3		Tyndall AFB,FL	3	
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Saint Peters,FL	4	
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La Grange, GA	3	
Macon/Lewis,GA	3	
Moody AFB,GA	3	_
		_
Robins AFB,GA	3	
Rome/Russell,GA	3	
Savannah Mun,GA	3	
Valdosta,GA	3	
Waycross,GA	3	
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HAWAII	П	
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Barbers Pt,HI	4	
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Barking San,HI	4	
Fr Frigate,HI	4	
Hilo,HI	5	
Honolulu Int,HI	4	
Kahului Maui,HI	5	
Kaneohe Mca,HI	4	
Kaneohe Mca,HI	4	
Ke-Ahole/Kon,HI	5	
	4	
Kilauea Pt,HI		
Lanai-Lanai,HI	5	
Lihue-Kauai,HI	4	
Maui,HI	5	
Molokai,HI	4	
Upolo Pt Ln,HI	5	
Waimea-Koha,HI	4	
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IDAHO	Н	
IDATIO	\vdash	
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Boise,ID	2	
Burley,ID	2	
Challis,ID	2	
Coeur d'Alene,ID	1	
Elk City,ID	2	
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IDAHO	H	H
Gooding,ID	2	H
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Grangeville,ID	_	ŀ
Idaho Falls,ID	2	ŀ
Lewiston, ID	1	ŀ
Malad City,ID	2	Ļ
Malta,ID	2	Ļ
Mccall,ID	2	Ļ
Mountn Home,ID	2	L
Mullan, ID	1	L
Pocatello,ID	2	L
Salmon,ID	2	
Soda Springs,ID	2	
Sun Valley,ID	2	
Twin Falls,ID	2	
ILLINOIS		ŀ
Alter II	_	ŀ
Alton,IL	2	ŀ
Aurora,IL	2	ŀ
Bistate Park,IL	2	ŀ
Bloomington,IL	2	ŀ
Bradford,IL	2	L
Cairo,IL	3	L
Carbondale,IL	3	L
Centralia,IL	2	ĺ
Champaign/Urbana,IL	2	ĺ
Chicago, IL	2	ľ
Chicago/Midway,IL	2	ľ
Chicago/O'hare,IL	2	İ
Danville,IL	2	İ
DeKalb,IL	2	ŀ
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Du Page,IL	2	ŀ
Galesburg,IL	2	ŀ
Glenview NAS,IL	2	Ļ
Kankakee,IL	2	L
Macomb,IL	2	L
Marion,IL	3	
Marseilles, IL	2	Ī
Mattoon,IL	2	Ī
Moline/Quad,IL	2	Ī
Mount Vernon,IL	2	İ
Peoria,IL	2	t
Quincy,IL	2	ŀ
Rockford, IL	2	ŀ
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Salem,IL Scott AFB,IL	2	ŀ
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Springfield,IL	2	ŀ
Sterling,IL	2	ŀ
INDIANA		ŀ
Taylonillo II	_	ŀ
Taylorville, IL	2	ŀ
Vandalia,IL	2	ŀ
Bakalar Af,IN	2	ŀ
Bloomington,IN	2	Ļ
Elkhart,IN	2	L
Evansville,IN	2	L
Fort Wayne,IN	2	L
Gary,IN	2	Ĺ
Grissom AFB,IN	2	ĺ
Indianapolis,IN	2	ĺ
Muncie,IN	2	İ
South Bend,IN	2	t
Terre Haute,IN	2	ŀ
Lafayette,IN	2	ŀ
IOWA		Ī
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Burlington,IA	2	ŀ
Cedar Rapids,IA	Ľ	ŀ
IOWA		F
Des Moines,IA	2	t
Dubuque, IA	2	ŀ
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Estherville,IA	2	ŀ
Fort Dodge,IA	2	ŀ
Lamoni,IA	2	ŀ
Mason City,IA	2	Ļ
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Ottumwa,IA	_	
Ottumwa,IA Sioux City,IA	2	

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Spencer,IA	2	
Waterloo Mun,IA	2	
KANSAS		
Chanute,KS	3	
Concordia,KS	2	
Dodge City,KS	3	
Elkhart,KS	3	
Emporia,KS	2	
Ft Leavnwrth,KS	2	-
Ft Riley,KS	2	
Garden City,KS	3	H
Goodland,KS	2	_
Hays,KS	2	Н
Hill City,KS	2	Н
Hutchinson,KS	2	-
Johnson Cnty, KS	2	-
Kansas City, KS	_	-
Liberal, KS Manhatten,KS	2	
Mcconnell Af,KS	3	ĺ
Medicine Ldg,KS	3	
Olathe,KS	2	
Russell,KS	2	
Salina,KS	2	
Topeka,KS	2	
Topeka/Forbe,KS	2	
Wichita,KS	3	
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KENTUCKY		
	I	
Bowling Gren,KY	3	
Ft Campbell,KY	3	
Ft Knox,KY	3	
Jackson,KY	3	
Lexington,KY	2	
London,KY	3	
Louisville,KY	2	
Owensboro,KY	3	
Paducah,KY	3	
Pikeville,KY	3	
LOUIGIANA	+	_
LOUISIANA	+	
Alexandria,LA	3	
Barksdale,LA	3	
Baton Rouge,LA	3	Т
Boothville,LA	3	
Cameron Heli,LA	3	
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Claiborne R,LA	3	
Claiborne R,LA England AFB,LA	٠,	
England AFB,LA		
England AFB,LA		
England AFB,LA LOUISIANA Eugene Is.,LA	4	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA	4 3	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA	4 3 3	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Is,LA	4 3 3 4	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Is,LA High Island,LA	4 3 3 4 4	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Is.LA High Island,LA Houma,LA	4 3 3 4 4 3	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Island,LA Houma,LA Intercoastal,LA	4 3 3 4 4	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Is,LA High Island,LA Houma,LA Intercoastal,LA Lafayette,LA	4 3 3 4 4 3 3	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Island,LA Houma,LA Intercoastal,LA	4 3 3 4 4 3 3 3	
England AFB,LA LOUISIANA Eugene Is,,LA Fort Polk,LA Grand Isle,LA High Is,LA High Is,LA High Is,LA LA Houma,LA Intercoastal,LA Lafeyette,LA Lake Charles,LA Lk Palourde,LA	4 3 3 4 4 3 3 3 3	
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England AFB,LA LOUISIANA Eugene Is,,LA Fort Polk,LA Grand Isle,LA High Is,LA High Is,LA High Is,LA A Houma,LA Intercoastal,LA Latayette,LA Latek Charles,LA Lik Palourde,LA Missippi Can,LA Morne,LA Morogan City,LA	4 3 3 4 4 4 3 3 3 3 3 4	
England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Island,LA High Island,LA Houma,LA Intercoastal,LA Lafayette,LA Lake Charles,LA Lake Charles,LA Missippi Can,LA Monroe,LA Morgan City,LA New Iberia,LA	4 4 3 3 3 3 3 3 3 3 4 4 4 3 3	
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England AFB,LA LOUISIANA Eugene Is,,LA Fort Polk,LA Grand Isle,LA High Island,LA High Island,LA Hourna,LA Intercoastal,LA Lafayette,LA Lake Charles,LA Missippi Can,LA Monroe,LA Morgan City,LA New Iberia,LA	4 3 3 4 4 4 3 3 3 3 3 3 3 3 3 3 4 4 3 3 4 4 3 3 3 4 4 4 3 3 3 3 3 4 4 4 3 3 3 3 3 4 4 3	
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England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Is.LA High Island,LA Intercoastal,LA Lafayette,LA Lafayette,LA Lake Charles,LA Lk Palourde,LA Missippi Can,LA Monroe,LA Morgan City,LA New Dreans,LA Sherveport,LA	4 4 3 3 3 4 4 4 4 3 3 3 3 3 3 4 4 3 3 3 3 3 3 4 4 3 3 3 3 3 3 4 4 3 3 3 3 3 3 4 4 3 3 3 3 3 3 4 4 3 3 3 3 3 3 3 4 4 3 3 3 3 3 3 3 4 4 3	
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England AFB, LA LOUISIANA Eugene Is., LA Fort Polk, LA Grand Isle, LA High Is, LA High Is, LA High Island, LA Intercoastal, LA Lafayette, LA Lafayette, LA Lake Charles, LA Missippi Can, LA Morgan City, LA Morgan City, LA S Marsh Isl, LA S Marsh Isl, LA S Marsh Isl, LA S Marsh Isl, LA MAINE Augusta, ME	4 3 3 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
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England AFB,LA LOUISIANA Eugene Is.,LA Fort Polk,LA Grand Isle,LA High Is.,LA High Is.,LA High Island,LA Intercoastal,LA Lafayette,LA Lafayette,LA Lafayette,LA Missippi Can,LA Monroe,LA Morgan City,LA New Orleans,LA Shreveport,LA Shireveport,LA Slidel,LA MAINE Augusta,ME Bangor,ME Bar Harbor,ME	4 3 3 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
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MAINE	Т	Н
Houlton,ME	1	
Loring AFB,ME	1	
Portland,ME	2	
Presque Isle,ME	1	
Rockland,ME	2	
Rumford,ME	2	
MARYLAND		
Andrews AFB,MD	2	
Baltimore,MD	2	
Fort Meade,MD	2	
Hagerstown,MD	2	
Ocean City,MD	2	
Patuxent,MD Phillips,MD	2	
Salisbury,MD	2	
Canobary, IVID	Ť	
MASSACHUSETTS		П
Bedford,MA	2	
Beverly,MA	2	
Beverly,MA	2	
Boston,MA	2	
Cape Cod Can,MA	2	
Chatham,MA	2	
Fort Devens,MA	2	
Hyannis,MA	2	
Lawrence,MA	2	
Marthas Vineyard,MA	2	
Nantucket,MA	2	
New Bedford,MA	2	
Norwood,MA	2	
Otis ANGB,MA	2	
Pittsfield,MA	2	
S Weymouth,MA	2	
Westfield,MA	2	
Westover,MA	2	
Worcester, MA	2	Н
MICHIGAN		Н
MICHIGAN	_	
Alpena,MI	2	
Ann Arbor,MI	2	
Battle Creek,MI	2	
Benton Harbor,MI	2	
Chippewa,MI	1	
Coopersville,MI	2	
Copper Harb,MI	1	
Detroit,MI	2	
Escanaba,MI	1	
Flint/Bishop,MI	2	
Grand Rapids,MI	2	
Hancock,MI	1	
Alpena,MI	2	
Ann Arbor,MI	2	
Battle Creek,MI	2	
Benton Harbor,MI	2	
Chippewa,MI	1	
Coopersville,MI	2	
Copper Harb,MI	1	
Detroit,MI	2	
Escanaba,MI	1	
Flint/Bishop,MI	2	
Grand Rapids,MI Hancock MI	1	
	1	
Harbor Springs,MI Houghton Lake,MI	2	
Iron Mtn,MI	2	
Ironwood,MI	1	
Jackson,MI	2	
Kalamazoo,MI	2	
Lansing,MI	2	
Manistee,MI	2	
Marquette, MI	1	
Menominee,MI	1	
Muskegon, MI	2	
Pellston,MI	2	
	2	
Pontiac,MI		
	2	
Pontiac,MI		

United States & Canada P. 2

Alexandria,MN Bemidji Muni,MN Brainerd-Crw,MN Detroit Laks,MN Duluth,MN Ely,MN Fairmont,MN	2 2 1	Lewiston,MT Livingston,MT	1	Cranberry/Dayton, N. 2	Fayetteville,NC	3	Cascade,OR	1	Rapid City,SD	2	Dugway Prvgr,UT	2	Bluefield.WV	+_
Alexandria,MN Bemidji Muni,MN Brainerd-Crw,MN Detroit Laks,MN Duluth,MN Ely,MN Fairmont,MN	2	,	'	Cranberry/Dayton, N. 2					Rapid City,SD	4	Dugway Prvgr, UT			
Bemidji Muni,MN Brainerd-Crw,MN Detroit Laks,MN Duluth,MN Ely,MN Fairmont,MN		Livingston,MT										_		3
Brainerd-Crw,MN Detroit Laks,MN Duluth,MN Ely,MN Fairmont,MN	1		2	Fairfield,NJ 2	Fort Bragg,NC	3	Corvallis, OR	2	Redig,SD	2	Eagle Range,UT	2	Charleston,WV	2
Detroit Laks,MN Duluth,MN Ely,MN Fairmont,MN		Malmstrom,MT	1	Lakehurst,NJ 2	Greensboro,NC	3	Eugene,OR	2	Sioux Falls,SD	2	Green River,UT	2	Elkins,WV	2
Detroit Laks,MN Duluth,MN Ely,MN Fairmont,MN	1	Miles City,MT	1	Mcguire AFB,NJ 2	Hickory,NC	3	Hillsboro,OR	1	Watertown,SD	2	Hanksville,UT	3	Huntington, WV	2
Duluth,MN Ely,MN Fairmont,MN	1	Missoula,MT	1	Millville,NJ 2	Hot Springs,NC	3	Klamath Fall, OR	2	Yankton,SD	2	Hill AFB,UT	2	Lewisburg,WV	3
Ely,MN Fairmont,MN									Tankton, OD	-				
Fairmont,MN	1	Monida,MT	2	Morristown,NJ 2	Jacksonville,NC	3	La Grande,OR	2	-	-	Logan,UT	2	Martinsburg,WV	2
	1	Sidney,MT	1	Newark Intl,NJ 2	Kinston,NC	3	Lake View,OR	2	TENNESSEE		Milford,UT	3	Morgantown,WV	2
Fergus Falls,MN	2	Thompson Fal,MT	1	Teterboro,NJ 2	Mackall Aaf,NC	3	Meacham, OR	2			Moab,UT	3	Parkersburg,WV	2
	1	W Yellowston,MT	2	Trenton,NJ 2	Manteo Arpt,NC	3	Medford,OR	2	Bristol,TN	3	Ogden,UT	2	Wheeling,WV	2
	1	Wolf Point,MT	1		New Bern,NC	3	Newport, OR	2	Chattanooga,TN	3	Price/Carbon,UT	2	White Sulph,WV	3
	1	TTOILT GIRL, III	 	NEW MEXICO		3		2	Clarksville, TN	3	Provo,UT	2	William Calpin, WV	+*+
			\vdash	NEW MEXICO	New River,NC		North Bend,OR							+
	1	NEBRASKA	ш		Pope AFB,NC	3	Ontario, OR	2	Crossville, TN	3	Roosevelt,UT	2	WISCONSIN	+
	2			Albuquerque,NM 3	Raleigh-Durh,NC	3	Pendleton,OR	2	Dyersburg,TN	3	Saint George,UT	3		
Mankato,MN	2	Ainsworth,NE	2	Cannon,NM 3	Rocky Mt,NC	3	Portland,OR	2	Jackson,TN	3	Salt Lake Ct,UT	2	Appleton,WI	2
Marshall Arpt, MN	2	Alliance.NE	2	Carlsbad.NM 3	Seymour-John,NC	3	Redmond.OR	2	Knoxville, TN	3	Tooele,UT	2	Eau Claire.WI	2
	2	Beatrice.NE	2	Clayton Arpt,NM 3	Southern Pin,NC	3	Roseburg,OR	2	Memphis Intl.TN	3	Vernal,UT	2	Green Bay, WI	2
	_		_	Corona.NM 3		_						_		
	1	Broken Bow,NE	2		Wilmington, NC	3	Salem,OR	2	Memphis NAS,TN	3	Wendover,UT	2	Janesville,WI	2
- 1	1	Burwell,NE	2	Cuba Awrs,NM 3	Winston-Salem,NC	3	Sexton,OR	2	Monteagle,TN	3			La Crosse,WI	2
Redwood Falls,MN	2	Chadron,NE	2	Deming,NM 3			The Dalles,OR	1	Nashville,TN	3	VERMONT		Lone Rock,WI	2
Rochester,MN	2	Columbus,NE	2	Farmington, NM 3	NORTH DAKOTA		Troutdale,OR	1	Smyma, TN	3			Madison,WI	2
Saint Paul,MN	2	Cozad,NE	2	Gallup/Clark,NM 3		ТП					Burlington,VT	2	Manitowac,WI	2
	2	Falls City,NE	2	Grants,NM 3	Bismarck,ND	2	PENNSYLVANIA	\vdash	TEXAS		Montpelier, VT	2	Milwaukee,WI	2
	_					_	LINGILVANIA	+	112000	+		_		
	1	Grand Island,NE	2	Hobbs,NM 3	Devil's Lake,ND	2	l	-	l I		Newport,VT	2	Milwaukee,WI	2
	1	Hastings,NE	2	Holloman AFB,NM 3	Dickenson,ND	2	Allentown,PA	2	Abilene,TX	3	Rutland, VT	2	Mosinee,WI	2
	1	Imperial,NE	2	Las Cruces,NM 3	Fargo,ND	2	Altoona,PA	2	Alice,TX	2	St Johnsbury,VT	2	Neenah,WI	2
Worthington,MN	2	Keamey,NE	2	Las Vegas,NM 3	Grand Forks,ND	2	Beaver Falls,PA	2	Amarillo,TX	3	Wilmington,VT	2	Oshkosh,WI	2
-		Lincoln Muni,NE	2	Los Alamos,NM 3	Grand Forks,ND	2	Blairsville,PA	2	Austin,TX	3			Rhinelander,WI	2
MISSISSIPPI	\neg	Mccook,NE	2	Moriarity,NM 3	Jamestown,ND	2	Bradford,PA	2		3	VIRGINIA		Rice Lake,WI	2
middiddirfl	+H								Big Sky,TX		VINGINIA	\vdash		
		Mullen,NE	2	Northrup Str,NM 3	Lidgerwood,ND	2	Dubois,PA	2	Big Spring,TX	3	l	\vdash	Volk Fld,WI	2
	3	Norfolk,NE	2	Raton,NM 3	Minot AFB,ND	2	Erie,PA	2	Brownsville,TX	4	Charlottesvi,VA	2	Wausau,WI	2
Golden Trian,MS	3	North Omaha,NE	2	Roswell,NM 3	Minot Intl,ND	2	Franklin,PA	2	Carswell AFB,TX	3	Chesapeake,VA	2		1
	3	North Platte,NE	2	Santa Fe,NM 3	Roseglen, ND	2	Harrisburg,PA	2	Childress,TX	3	Danville, VA	3	WYOMING	\top
	3	O'neill,NE	2	Silver City,NM 3	Williston,ND	2	Harrisburg,PA	2	College Stn,TX	3	Fort Belvoir,VA	3	I	+
	3	Offutt AFB,NE	2		·· illiotori, ND	-		2		4	Fort Eustis,VA	3	Dia Dino: WV	2
	_			Socorro,NM 3		++	Johnstown,PA		Corpus Chrst,TX	_		_	Big Piney,WY	
	3	Omaha/Eppley,NE	2	Taos,NM 3	OHIO	ш	Lancaster,PA	2	Cotulla, TX	4	Hot Springs,VA	3	Casper,WY	2
Jackson,MS	3	Ord/Sharp,NE	2	Truth Or Con,NM 3			Latrobe,PA	2	Dalhart,TX	3	Langley AFB,VA	2	Cheyenne,WY	2
Keesler AFB,MS	3	Scottsbluff,NE	2	Tucumcari,NM 3	Athens/Albany,OH	2	Middletown,PA	2	Dallas/FW,TX	3	Lynchburg,VA	3	Cody,WY	2
Laurel,MS	3	Sidney Muni,NE	2	White Sands,NM 3	Canton,OH	2	Muir,PA	2	Del Rio,TX	4	Newport News, VA	3	Douglas,WY	2
	3		2	Willie Gallas, till	Cincinnati.OH	2	Nth Philadel,PA	_	—	3	Norfolk NAS,VA	_		2
		Valentine,NE	2	 				2	El Paso,TX			3	Evanston,WY	
	3		ш	NEW YORK	Cleveland,OH	2	Philadelphia,PA	2	Ellington Af,TX	3	Oceana NAS,VA	3	Gillette,WY	2
Natchez,MS	3	NEVADA			Cleveland,OH	2	Pittsburgh,PA	2	Fort Worth,TX	3	Quantico Mca,VA	2	Jackson,WY	2
Oxford,MS	3			Albany,NY 2	Cleveland,OH	2	Pittsburgh,PA	2	Galveston,TX	3	Richmond, VA	2	Lander,WY	2
Tupelo,MS	3	Austin,NV	2	Ambrose,NY 2	Columbus,OH	2	Reading,PA	2	Greenville,TX	3	Roanoke Muni,VA	3	Laramie,WY	2
		Area 51, Nevada	2	Binghamton,NY 2	Columbus Osu,OH	2	State Colleg,PA	2	Guadalupe Ps,TX	3	Staunton, VA	2	Moorcroft,WY	2
	-H													
MISSOURI	$-\!$	Battle Mtn,NV	2	Buffalo,NY 2	Dayton,OH	2	Wilkes-Barre,PA	2	Harlingen,TX	4	Volens,VA	3	Rawlins,WY	2
		Caliente,NV	3	Dansville,NY 2	Findlay,OH	2	Williamsport,PA	2	Hondo,TX	4	Wallops Sta,VA	3	Riverton,WY	2
Columbia,MO	2	Elko,NV	2	Elmira,NY 2	Mansfield,OH	2	Willow Grove,PA	2	Houston,TX	3			Rock Springs,WY	2
Cp Girardeau,MO	3	Ely/Yelland,NV	3	Farmingdale,NY 2	Rickenbacker, OH	2			Junction, TX	4	WASHINGTON		Sheridan,WY	2
	3	Eureka,NV	2	Fort Drum,NY 2	Toledo, OH	2	RHODE ISLAND		Kelly AFB,TX	4			Worland,WY	2
							KHODE ISLAND	-				1		
	2	Fallon NAS,NV	2	Glens Falls,NY 2	Willoughby,OH	2		\vdash	Kerrville, TX	4	Bellingham, WA		Yellowstone,WY	2
	3	Hawthorne, NV	3	Griffiss AFB,NY 2	Wright-Pat AFB,OH	2	Block Island,RI	2	Killeen,TX	3	Bremerton,WA	1		\perp
Kansas City,MO	2	Ind Sprng Rn,NV	3	Islip,NY 2	Youngstown,OH	2	Nth Kingston,RI	2	Kingsville,TX	4	Burlington,WA	1	CANADA	
Kirksville,MO	2	Las Vegas,NV	3	Ithaca,NY 2	Zanesville, OH	2	Providence.RI	2	Laredo Intl,TX	4	Colville,WA	1		$\pm \pm$
	3		3		Lancovino, or r			3		3		1	Abbataford	1
		Lovelock,NV		Jamestown,NY 2	ord Aller:	++	Quonset Pt NAS,RI	J	Longview,TX		Ephrata,WA		Abbotsford	1
	3	Mercury,NV	3	Massena,NY 2	OKLAHOMA	$+\!+\!1$	<u> </u>	\vdash	Lubbock,TX	3	Everet/Paine,WA	1	Barrie	2
	3	Nellis AFB,NV	3	Monticello,NY 2		$\sqcup \sqcup$	SOUTH CAROLINA		Lufkin,TX	3	Fairchild,WA	1	Calgary	1
Richards-Geb,MO	2	Owyhee,NV	2	New York,NY 2	Altus AFB,OK	3		┙¯	Marfa,TX	3	Fort Lewis,WA	1	Edmonton	1
Spickard,MO	2	Pharrump, NV	2	New York/JFK,NY 2	Ardmore,OK	3	Anderson,SC	3	Mcallen,TX	4	Hanford,WA	1	Grand Sudbury	1
	3	Reno,NV	2	New York/LGA,NY 2	Bartlesville.OK	3	Beaufort Mca,SC	3	Midland,TX	3	Hoguiam, WA	1	Guelph	2
	2	Tonopah, NV	3	Newburgh,NY 2	Clinton,OK	3	Charleston,SC	3	Palacios,TX	4	Mcchord AFB,WA	1	Halifax	2
	2		2			3		3		3		1		2
	_	Wildhorse,NV	_		Enid,OK	_	Columbia,SC		Paris/Cox,TX		Moses Lake,WA		Hamilton	
	2	Winnemucca,NV	2	Ogdensburg,NY 2	Fort Sill,OK	3	Florence,SC	3	Plainview,TX	3	Oak Harbor,WA	1	Kelowna	1
	2	Yucca Flat,NV	3	Oneonta,NY 2	Gage,OK	3	Greenville,SC	3	Port Arthur,TX	3	Olympia,WA	1	Kingston	2
West Plains,MO	3		ΙΠ	Plattsburgh,NY 2	Hobart, OK	3	Greenville,SC	3	Reese AFB,TX	3	Omak,WA	1	Kitchener	2
	2	NEW HAMPSHIRE	П	Poughkeepsie,NY 2	Lawton, OK	3	Mcentire,SC	3	Rockport,TX	4	Pasco,WA	1	Lévis	1
	H	Juni Jilike	\vdash	Rochester,NY 2	Mcalester,OK	3	Myrtle Beach,SC	3	San Angelo,TX	3	Port Angeles,WA	1		2
	+	B F AU								_			London	
MONTANA	\perp	Berlin,NH	2	Saranac Lk,NY 2	Norman,OK	3	Nth Myrtle B,SC	3	San Antonio,TX	4	Pullman,WA	1	Montréal	2
	\perp	Concord,NH	2	Schenectady,NY 2	Oklahoma Cty,OK	3	Shaw AFB,SC	3	Sanderson,TX	3	Quillayute,WA	1	Oshawa	2
Billings,MT	2	Jaffrey,NH	2	Syracuse,NY 2	Page,OK	3	Spartanburg,SC	3	Sherman-Deni,TX	3	Renton,WA	1	Ottawa	2
Bozeman,MT	2	Keene,NH	2	Utica,NY 2	Ponca City,OK	3			South Brazos,TX	4	Seattle,WA	1	Québec	1
	2	Laconia,NH	2	Watertown,NY 2	Stillwater, OK	3	SOUTH DAKOTA		Stephenville,TX	3	Shelton,WA	1	Richmond	1
	2	Lebanon, NH	2		Tinker AFB,OK	3		\vdash	Temple,TX	3	Spokane,WA	1		1
										_			Saskatoon	
	1	Manchester,NH	2	White Plains,NY 2	Tulsa,OK	3	Aberdeen,SD	2	Victoria,TX	4	Stampede Pas,WA	1	Sherbrooke	2
	2	Mt Washingtn,NH	2		Vance AFB,OK	3	Brookings,SD	2	Waco-Madison,TX	3	Tacoma,WA	1	Thunder Bay	1
Drummond,MT	1	Nashua,NH	2	NORTH CAROLINA		ιП	Chamberlain, SD	2	Wichita Flls,TX	3	Toledo,WA	1	Toronto	2
	1	Pease AFB,NH	2		OREGON	ПΠ	Custer,SD	2	Wink,TX	3	Walla Walla,WA	1	Trois-Rivières	1
	1	Wolfeboro,NH	2	Ashavilla NC 2		+	Ellsworth Af,SD	2	T	H	Wenatchee,WA	1		
	_	vvolleboro,NM	4	Asheville,NC 3	1	+			 	+		_	Vancouver	1
	1		\sqcup	Cape Hattera,NC 3	Astoria,OR	1	Huron,SD	2	UTAH	\vdash	Whidbey Is,WA	1	Victoria	1
	1	NEW JERSEY	ш	Charlotte,NC 3	Aurora, OR	1	Lemmon,SD	2	l	ш	Yakima,WA	1	Windsor	2
Havre,MT	1		L∏	Cherry Point,NC 3	Baker,OR	2	Mitchell,SD	2	Blanding,UT	3		ΙT	Winnipeg	1
	1	Atlantic Cty,NJ	2	Dare Co Gr,NC 3	Brookings,OR	2	Mobridge,SD	2	Bullfrog Mar, UT	3	WEST VIRGINIA		1.3	77
	1		2			2		2			T.LO. T.IKOINIA	+		+
		Barnegat Ls,NJ	_	Diamond Sho,NC 3	Burns Arpt,OR		Philip,SD		Cedar City,UT	3	2 11	<u> </u>	l	+
Kalispell,MT	1	Cape May, NJ	2	Elizabeth,NC 3	Cape Blanco,OR	2	Pierre,SD	2	Delta,UT	3	Beckley,WV	3		$\bot\!\!\!\!\bot$
1 1			Ш			டட			J L	$\sqcup \bot$	l L		l L	┷

Europe. Australia & New Zealand

ANDORRA	++	DENMARK	+	Н	GERMANY	+	L
Andorra la Vella	2	Odense	1	H	Dortmund	1	H
rational a void	1-	Tonder	1	П	Dresden	1	H
BRITSH ISLES	#	Sonderborg	1	П	Duisburg	1	T
England / Scotland /		Egernsund	1		Düsseldorf	1	T
reland		1 -			Erfurt	1	Г
Aberdeen	0	FRANCE			Essen	1	Г
Belfast	1				Frankfurt am Main	1	T
Birmingham	1	Aix-en-Provence	2		Freiburg	2	Г
Bradford	1	Amiens	1		Gelsenkirchen-Alt	1	Г
Bristol	1	Angers	2		Göttingen	1	Г
Cardiff	1	Annecy	2		Hagen	1	Г
Cork IRL	1	Argenteuil	2		Halle-Neustadt	1	Г
Coventry	1	Asnières-sur-Seine	1		Hamburg	1	Γ
Derby	1	Avignon	2		Hamm	1	Г
Dublin, IRL	1	Besancon	2		Hannover	1	
Oublin, Engl.	1	Bordeaux	2		Heidelberg	1	
Dudley	1	Boulogne-Billancourt	1		Ingolstadt	2	L
Edinburgh	1	Brest	1		Karlsruhe	1	
Glasgow	1	Caen	1		Kiel	1	L
Gloucester	1	Calais	1		Koblenz	1	L
sle of Man	1	Clermont-Ferrand	2		Köln (Cologne)	1	L
Kingston, Scotland	1	Cluses	2		Krefeld	1	Ĺ
_eeds	1	Dijon	2		Leipzig	1	L
_eicester	1	Grenoble	2		Lübeck	1	L
imerick	1	Le Havre	1	Ш	Ludwigshafen am Rhein	1	L
_iverpool	1	Le Mans	1	Ш	Magdeburg	1	L
ondon	1	Lille	1		Mainz	1	H
_ondonderry/ Derry _uton	1	Limonges	2		Mannheim Mänchengladhach	1	H
	1	Lyon Marseille	2		Mönchengladbach Mülheim an der Ruhr	1	H
Manchester Milton Keynes	1	Metz	1		München	2	H
Newcastle	1	Montpellier	2		Münster	1	H
Newport	1	Montreuil	1	H	Neustadt	1	H
Vorthampton	1	Mulhose	2		Nürnberg	1	H
Vorwich	1	Nancy	2	Н	Oberhausen	1	H
Nottingham	1	Nanterre	1		Recklinghausen	1	H
Plymouth	1	Nantes	2	Н	Regensburg	1	H
Portsmouth	1	Nice	2		Rostock	1	r
Preston	1	Nimes	2		Stuttgart	2	r
Reading	1	Orléans	2	П	Ulm	2	r
Sheffield	1	Paris	1	H	Wiesbaden	1	H
Southampton	1	Perpignan	2		Wolfsburg	1	r
Southend-on-Sea	1	Poitiers	2	П	Wuppertal	1	Г
Stoke-on-Trent	1	Reims	1	П	Würzburg	1	r
Sunderland	1	Rennes	1				Г
Volverhampton	1	Roubaix	1		GREECE		Γ
•		Rouen	1				
BELGIUM		Saint-Denis	1		Athens	2	
		Saint-Etienne	2		Thessaloníki	2	
Brussels	1	Strasbourg	2		Piraeus	2	L
Aalst	1	Toulon	2		Pátrai	2	L
Antwerp	1	Toulouse	2		Peristérion	2	L
Brugge	1	Tourcoing	1		Irákleion	3	L
Charleroi	1	Tours	2			4	L
Gent	1	Versailles	1		ITALY	╄	L
Hasselt	1	Villeurbanne	2	H	<u></u>	Ļ	L
Kortrijk	1		\perp	Н	Bari	2	Ĺ
_a Louvière	1	FINLAND	+	Н	Bologna Catania (Cigillia)	2	F
_euven	1	Holoinki	0	Н	Catania (Sicillia)	2	H
_iège	1	Helsinki	0	Н	Florence	2	H
Mechelen Mone	1	Espoo Tampere	0	Н	Genova	12	H
vions Namur	1	Tampere Vantaa	0	Н	Milano	2	H
Namur Dostende	1	Vantaa Turku	0	Н	Monza	2	E
Sint-Niklaas	1	Oulu	0	Н	Naples	3	H
Tournai	1	Lahti	0	Н	Napoli	3	H
. ou. Hui	++	Kuopio	0	Н	Padova	2	H
DENMARK	+	Jyväskylä	0	Н	Palermo (Sicillia)	3	t
	\top	Pori	0	H	Pisa	2	t
Hjorring	1	11	Ť	П	Rome	2	Ī
redrikshavn	1	GERMANY	\top	П	San Marino	2	Ĺ
Aalborg	1	11		П	Siracusa (Sicillia)	3	Ī
Stuer	1	Aachen	1		Torino	2	Ī
Randers	1	Augsburg	2		Trieste	2	Ė
Arhus	1	Berlin	1		Venice	2	Ĺ
Horsens	1	Bielefeld	1		Verona	2	Γ
/ejle	1	Bochum	1			T	Γ
-rederiksberg	1	Bonn	1		LUXENBOURG	T	Γ
Copenhagen	1	Braunschweig	1			Ι	Γ
Hvidovre	1	Bremen	1		Luxembourg	1	Γ
Kolding	1	Chemnitz	1				Γ
Esbjerg	1	Darmstadt	1		MONACO	\Box	ſ
	-	11	\neg		Monte-Carlo	2	c

NETHERLANDS	t	H	
Almere Stad	1		
Amsterdam	1		
Arnhem	1		
Breda	1		
Den Haag	1		
Eindhoven	1		
Enschedet	1		
Groningen	1		
Haarlem	1		
Nijmegen	1		
Rotterdam	1		
Tilburg	1	Н	-
	_		_
Utrecht	1		
NO DIMANA	_	Н	_
NORWAY		Н	
	_	Ш	_
Oslo	0		
Bergen	0		
Stavanger	0		
Trondheim	0		
Kristiansand	0		
Drammen	0	П	
Tromsø	0	П	
Tønsberg	0	Н	
. p. lobol y	ř	H	
PORTUGAL	H	H	
ONTOUAL	H	Н	
Amadora	3		
Amadora			
Aveiro	3		
Beja -	3		
Braga	2		
Cacém	3		
Cascais	3		
Coimbra	3		
Corroios	3		
Évora	3		
Faro	3		
Fatima	3		
Funchal (Isle, Madeira)	4		
Lisbon	3		
Loures	3		
Porto	2		
Queluz	3		
Setúbal	3		
Vila Nova de Gaia	2		
The Hotel do Gala	۲	H	
Basel	2		
Bern	2	H	
Biel	2		
Genève	2		
Lasanne	2		
Luzern	2		
Zürich	2		
SPAIN			
		П	
Alcala de Henares	3		
Alcant	3		
Alhambra	3		
	2		
Badalona	2		
Barcelona	1		
Bibao	2		
Cadiz	3		
Cartagena	3		
Cordoba	3		
Eix	3		
Eixample	2		
Fuenlabrada	3		
	2		
Gijon Granada Andalusia			
Granada, Andalusia	3		
Jerez de la Frontera	3		
Las Palmas de Gran Canai	4		
L'Hospitalet de Llobregat	2		
Madrid	3		
Malaga	3		
Mostoles	3		
Murcia	3		
Oveido	2		
Dalasa	3		
Palma			
Sabadell	2		
	2		
Sabadell	_		

SPAIN		
	Т	
Santa Cruz de Tenerife	4	
Sevilla	3	
Terrassa	2	
Toledo	3	
SPAIN	ı	
Valencia	3	
Valladolid	2	
Vigo	2	
Vitoria-Gasteitz	2	
Zaragoza	3	
Pala, Mallorca	3	
	Т	
SWEDEN		
Malmö	1	
Helsingborg	1	
Göteborg	1	
Linköping	0	
Stockholm	0	
Uppsala	0	
Kista	0	
Västerås	0	
Örebro	0	
Karlstad	0	
Täby	0	

AUSTRALIA		
Sydney	3	
Melbourne	2	
Perth	3	
Adelaide	3	
Brisbane	4	
Gold Coast	4	
Newcastle	4	
Canberra	3	
Wollongong	3	
Cairns	4	
Geelong West	2	
Townsville	4	
Albury	3	
Nowra	3	
Darwin	5	
Toowoomba	4	
Ballarat	2	
Bendigo	2	
Mackay	4	
Mandurah	3	
Ayers Rock	4	
Surfer's Paradise	3	
NEW ZEALAND		
Auckland	2	
Wellington	2	
Christchurch	2	

Eastern Europe, Middle East. Asia

City	Zone		City	Zon	е	City	Zone		City	Zone	City	Zone	
		Н		_	Н								Н
AFGHANISTAN			CHINA		H	CHINA	-	H	KAZAKSTAN		PHILIPPINES		
Kabul	3		Taiyuan	3		Peristérion	2		Almaty	2	Manila	5	
Kandahar	3		Yunfu	4		Irákleion	3		Qaraghandy	1	Davao	5	
		Ш	Changchun	2				Ш	Karagandy	1	Cebu City	5	
ALBANIA		Н	Jinan	3		HUNGARY	-	Н			POLAND		Н
Tirana	2	Н	Dalian Zhengzhou	3		Budapest	1		KUWAIT	3	POLAND		Н
Durrës	2		Shijiazhuang	3		Debrecen	1		KOWAII	Ť	Warsaw	1	
Elbasan	2		Jilin	2		Miskolc	1				Łódź	1	
			Hangzhou	3		Szeged	1		KYRGYSTAN		Kraków	1	
ARMENIA		Н	Nanchang	3		Pécs	1		Diableale	1	Wrocław	1	
Yerevan	2	Н	Qingdao Tangshan	3		Győr Nyíregyháza	1		Bishkek Osh	2	Poznań Gdańsk	0	
Gyumr	2		Xinyang	3		Nymegynaza	+ '-		OSII	-	Gudilak	0	П
			Ürümq	2		INDIA			LATVIA		PAPUA NEW GUINEA		
AZERBAAJAN		Ш	Fushun	2				ш					
Dela	1		Luoyang	3		Mumbai	5		Rīga	0	Port Moresby	5	
Baku Elisavetpol	2		Hefei Liuyang	3		Delhi Bengaluru	3		Daugavpils	0	QUATAR		Н
Liisavetpoi	-	П	Handan	3		Calcutta	4		LAOS		QUATAIX		П
BAHRAIN	3		Suzhou	3		Chennai	5		Vientiane	4	Doha	3	
		Ц	Shantou	3		Ahmadābād	4			$\perp \Box$			П
BANGLADESH	1	Н	Baotou	2		Hyderābād	5		LEBANAON	+	ROMANIA		Н
Dhaka	5		Anshan Xuzhou	3		Pune Sūrat	4		Beirut	3	Bucharest	2	
Chittagong	4		Fuzhou	3		Kānpur	3		Donut		lași	1	
Khulna	4		Guiyang	3		Jaipur	3		LITHUANIA		Cluj-Napoca	1	
		П	Dayan	4		Lucknow	3				Timişoara	1	П
BELARUS	<u> </u>	Н	Wuxi	3		Nägpur	4		Vilnius	0		 	Н
Minek	_	Н	Datong	3		Indore	4		Klainėda	0	DIIQQIAN EEDEDATION	<u> </u>	\vdash
Minsk Homyel'	1	H	Xianyang Huainan	3		Patna Bhopāl	3		Klaipėda Šiauliai	0	RUSSIAN FEDERATION		H
Mahilyow	0	П	Kunming	4		Ludhiāna	4		Dainava (Kaunas)	0	Moscow	0	П
•			Shenzhen	3							Saint Petersburg	0	
			Jieyang	4					MACEDONIA		Novosibirsk	0	
DOTNIA LIEDTEONINA		Н	Baoding	2		INDONESIA		H	01-		Yekaterinburg	0	\vdash
BOZNIA HERZEGOVINA		Н	Changethou	3		Jakarta	5		Скопје	2 2	Nizhniy Novgorod Samara	0	H
Sarajevo	2	Н	Changzhou Huaibei	3		Surabaya	5		Куманово Битола	2	Omsk	0	Ħ
Banja Luka	2		i idalisor	Ť	П	Medan	6		- Smorta		Kazan'	0	П
Zenica	2		CROATIA			Bandung	6				Rostov-na-Donu	1	
Tuzla	2				Ш	Sumatra	5		MALAYSIA		Chelyabinsk	0	
DDUNE		Н	Zagreb - Centar	1	\blacksquare		-	H	Kuala Lumana		Ufa	0	H
BRUNEI		Н	Zagreb Split	2		IRAN		H	Kuala Lumpur Klang	6	Volgograd Perm'	0	H
Bandar Seri Begawan	6		Rijeka	1	Н	IIVAIV		H	Kampung Baru Subang	6	Krasnoyarsk	0	П
						Tehrān	3		Singapore	6	Saratov	1	
BULGARIA			CZECH REPUBLIC		ш	Mashhad	3				Voronez	1	
0-5-	_		Death o		ш	Eşfahān	3		MOLDOVA	<u> </u>	Tol'yatti	0	
Sofia Plovdiv, Bulgaria	2		Praha Brno	1	\blacksquare	Karaj Tabrīz	3		Chişinău	1	Ulyanovsk	0	H
Varna, Bulgaria	2	П	Ostrava	1		TUDITE	T .		Tiraspol	1	Oryanovsk	ľ	П
			Plzeň	1		IRAQ					SOUTH KOREA		
BURMA (MYANMAR)			Prague	1				ш	MONGOLIA				
Danasan	<u> </u>		OVERNIO	_	Ш	Baghdad	3		Llleaghaster	1.1	Seoul	3	
Rangoon Mandalay	5 4		CYPRUS	3	H	Al Başrah Al Mawşil al Jadīdah	3		Ulaanbaatar Erdenet	1 1	Pusan	3	
iviai iUdidy	4	П	CRETE	3	Н	nı ıvlawşıı di Jauludiî	+ 3	П	Litteriet	 	Taegu Taejŏn	3	
CAMBODIA		Ħ		Ť	П	ISRAEL		Ħ			Kwangju	3	
		┚	EGYPT	3				П	NORTH KOREA		Suwŏn	3	
Phnom Penh	5		0-1	+-	Ш	Tel Aviv-Yafo	3						Н
Kâmpóng Saôm	5	F	Cairo	3		IADAN	1	Н	Pyongyang	2	SAUDI ARABIA		Н
	-	H	Alexandria Al Jīzah	3		JAPAN	+	H	VIETNAM	+	Riyadh	4	
CHINA	1	-	0.201.	Ť	П	Tokyo	3				Jiddah	4	
CHINA				-	П	Yokohama	3		Thành phố Hồ Chí Minh	5	Mecca	4	
CHINA Shanghai	3		ESTONIA									4	
Shanghai Beijing	2				П	Ōsaka	3		Hà Nội	5	Medina		
Shanghai Beijing Nanchong	2 3.5		Tallinn	0	H	Nagoya	3		Hà Nội Da Nang	5 4	Medina Sulţānah	4	
Shanghai Beijing Nanchong Tai'an	2 3.5 3			0		Nagoya Sapporo	3 3 2		Da Nang		Sulţānah		
Shanghai Beijing Nanchong	2 3.5		Tallinn			Nagoya	3						
Shanghai Beijing Nanchong Tai'an Kaifeng	2 3.5 3 3 3		Tallinn Tartu GEORGIA	0		Nagoya Sapporo Kōbe	3 3 2 3 3 3		Da Nang		Sulţānah		
Shanghai Beijing Nanchong Tai'an Kaifeng Wuhan Chongqing Chengdu	2 3.5 3 3 3 3 3		Tallinn Tartu GEORGIA Tbilisi	2		Nagoya Sapporo Kõbe Kyoto Fukuoka Kawasaki	3 3 2 3 3 3 3		Da Nang NEPAL Kathmandu	4	Sulţānah SERBIA Belgrade	4	
Shanghai Beijing Nanchong Tai'an Kaifeng Wuhan Chongqing Chengdu	2 3.5 3 3 3 3 3 2		Tallinn Tartu GEORGIA Tbilisi K'u't'ais	2 2		Nagoya Sapporo Köbe Kyoto Fukuoka Kawasaki Hiroshima	3 3 2 3 3 3 3		Da Nang NEPAL	4	Sulţānah SERBIA	4	
Shanghai Beijing Nanchong Tal'an Kaifeng Wuhan Chongqing Chengdu Tianjin	2 3.5 3 3 3 3 3 2 4		Tallinn Tartu GEORGIA Tbilisi	2		Nagoya Sapporo Köbe Kyoto Fukuoka Kawasaki Hiroshima Yono	3 3 2 3 3 3 3 3 3		Da Nang NEPAL Kathmandu OMAN	4	Suttanah SERBIA Belgrade SLOVAKIA	2	
Shanghai Beijing Nanchong Tai'an Kafeng Wuhan Chongqing Chengdu Tianjin Puyang Shenyang	2 3.5 3 3 3 3 3 2 4 2		Talinn Tartu GEORGIA Tbilisi Kutais Batumi	2 2		Nagoya Sapporo Köbe Kyoto Fukuoka Kawasaki Hiroshima Yono Sendai	3 3 2 3 3 3 3 3 3 2		Da Nang NEPAL Kathmandu OMAN Muscat	4 4	Sulţānah SERBIA Belgrade SLOVAKIA Bratislava	2	
Shanghai Beijing Nanchong Tai'an Kafeng Wuhan Chongqing Chengdu Tianjin Puyang Shenyang	2 3.5 3 3 3 3 3 2 4		Tallinn Tartu GEORGIA Tbilisi K'u't'ais	2 2		Nagoya Sapporo Köbe Kyoto Fukuoka Kawasaki Hiroshima Yono	3 3 2 3 3 3 3 3 3		Da Nang NEPAL Kathmandu OMAN	4	Suttanah SERBIA Belgrade SLOVAKIA	2	
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Mexico, Central & South America

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